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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/550,455	09/26/2005	Paolo Gianola	09952.0002	4643
	7590 07/13/2007 ENDERSON, FARABO	07 BOW, GARRETT & DUNNER EXAMINER		INER
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901 NEW YORK AVENUE, NW WASHINGTON, DC 20001-4413		ART UNIT	PAPER NUMBER	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply		Application No.	Applicant(s)				
Examiner							
Arryy Hie	Office Action Summary	·					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of tree may be available under the provisions of 37 CFR 1.136(a). In ore event, nowever, may a reply set limity flad Extension of tree may be available under the provisions of 37 CFR 1.136(a). In ore event, nowever, may a reply set limity flad Extension of tree may be available under the provisions of 37 CFR 1.136(a). In ore event, nowever, may a reply set limity flad If NO pand for reply is specified above, the maximum statustory period will apply and will explate X(e) (BANCHS To the health of the second plane). The second of the form status of the second plane of the second of the form status of the second of the communication, even if straty fleet, may reduce any event or plane to the major second of the Communication (s) filed on 04 April 2007. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-12 is/are pending in the application. 4a) Of the above claim(s) is/are allowed. 6) Claim(s) 1-12 is/are allowed. 6) Claim(s) 1-12 is/are rejected. 7) Claim(s) is/are objected to. 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 04 April 2007 is/are: a) caccepted or b) objected to by the Examiner. Application Papers 9) The provided plane of the provided of the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.85(a). 11) All b) Some * C) None of: 1. Certified copies of the priority documents have been received in Application No. 2. Certified copies of the priority documents have been received in this National Stage application from the International B	·	,					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Eatherster of time may be available under the provision of 37 CFR 1.186(a), in no event, mover, may reply be limbly filled. 1 NO period for reply is specified above, the maintain statutory period will apply and will expire SIX (6) MONTHS from the malling date of this communication. Pallure for proving within the set or control operation for reply will the set or communication (s) filed on 04 April 2007. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-12 is/are pending in the application. 4) Claim(s) 1-12 is/are allowed. 6) Claim(s) 1-12 is/are rejected. 7) Claim(s) is/are allowed. 6) Claim(s) is/are objected to. 8) Claim(s) 1-12 is/are rejected. 7) Claim(s) is are subject to restriction and/or election requirement. Applicant may not request that any objection to the drawing(s) be held in abeyance. Set 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. 9 Applicant may not request that any objection to the drawing(s) be held in abeyance. Set 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. Set 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. Set 37 CFR 1.85(a). Priority under 35 U.S.C. § 119(a)-(d) or (f). 3) All b) Some 'c) None of: 1. Certified copies of the priority documents have been received in Application No. 2. Certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action f	The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provides of 37 CR1.13(a). In a overth, know-re, may a raply be limitely field after Six (b) MONTHS from the mailing date of this communication. Fally to provide the provides of the communication of 37 CR1.13(a). In a overth, know-re, may a raply be limitely field of this communication. Fally to provide by the Office later than three months after the mailing date of this communication, even if timely filled, may reduce any seared patter than adjustment. Sea 37 CR1.74(b). Status 1) Responsive to communication(s) filled on 04 April 2007. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-12 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 1-12 is/are rejected. 7) Claim(s) 1-12 is/are rejected. 7) Claim(s) 1-12 is/are rejected. 7) The specification is objected to by the Examiner. 10) The specification is objected to by the Examiner. 10) The drawing(s) filed on 04 April 2007 is/are: a) Replacement drawing sheet(s) including the correction is required if the drawing(s) bolicated to see 37 CPR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received in Application No. 2. Certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified co	·						
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10) ☐ The drawing(s) filed on 04 April 2007 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No. ☐ . 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☐ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☐ Information Disclosure Statement(s) (PTO/SB/08) 5) ☐ Notice of Informal Patent Application	9)☐ The specification is objected to by the Examiner.						
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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

1. Claims 1-3, 5 and 9-12 are rejected under 35 U.S.C. 102(e) as being anticipated by Fu (U. S. Patent No. 6, 834,182).

As for claim 1, Fu discloses a device (mobile station 10, including the transmitter circuit 20 as shown in Figures 2, 7 and 9; abstract; col. 5, lines 3-25) for monitoring the electromagnetic field emitted by an antenna (24), the device comprising:

a measurement arrangement (the combination of ACPR detector 20B and 20C, as shown in Figures 7 and 9) for measuring at least one RF power signal input to the antenna (24) in at least one frequency band, wherein said at least one RF power signal is indicative of the electromagnetic field strength emitted by the antenna (i.e. the RF power transmitted by the mobile station through antenna 24, see claim 1) over a given area (coverage area of the transmitter 20), and

a communication module (the MCU 12 in Figure 1, or the combination of 20, 20A, is interpreted as a communication module since it communicates the result of the ACPR

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detector) for transmitting said at least one RF power signal to a processing facility (DSP 18, or other processing device located in a base station or another mobile station).

As for claim 2, Fu discloses the device of claim 1, wherein said measurement arrangement comprises a sampling circuit (ADC 18A as shown in Figures 7 and 9) responsive to the RF power signal input to the antenna (24), the sampling circuit generating a sequence of samples indicative of the electromagnetic field strength over a given time interval (i.e., the N samples sampled by ADC 18A, see col. 6, lines 6-8 and lines 51-54).

As for claim 3, Fu discloses the device of claim 1, wherein said measurement arrangement comprises an average calculating circuit (18G in Figure 9, col. 6, line 51) to generate signals indicative of the average electromagnetic field strength over a given time interval (col. 6, lines 51-54).

As for claim 5, Fu discloses the device of claim 1, wherein the device further comprises a memory (MEM 13 as shown in Figure 1) for storing data representative of said at least one RF power signal.

As for claim 9, Fu discloses the device of claim 1, further comprising a control module (Bias control 20D as shown in Figure 2) for controlling the at least one RF power signal input to the antenna (col. 6, lines 30-34).

As for claim 10, Fu discloses the device of claim 1, wherein the communication module (MCU12 or the combination of 20, 20A) is capable of receiving commands (e.g. from the bias control 20D) for controlling the at least one RF power signal input to the antenna (24).

As for claims 11 and 12, Fu discloses a transmission apparatus/ an antenna comprising a device (mobile station 10 in Figure 1, including the transmitter circuit 20 as shown in Figures 2, 7 and 9; abstract; col. 5, lines 3-25) for monitoring the electromagnetic field emitted by the antenna, the transmission apparatus emitting at least one RF power signal to the antenna, the device comprising:

a measurement arrangement (the combination of ACPR detector 20B and 20C as shown in Figures 7 and 9) for measuring at least one RF power signal input to the antenna in at least one frequency band (frequency band of the transmitter 20), wherein said at least one RF power signal is indicative of the electromagnetic field strength emitted by the antenna(i.e. the RF power transmitted by the mobile station through antenna 24, see claim 1) over a given area (coverage area of the transmitter 20), and

a communication module (the MCU 12 in Figure 1, or the combination of 20, 20A is interpreted as a communication module since it communicates the result of the ACPR detector) for transmitting said at least one RF power signal to a processing facility (DSP 18, or other processing device located in a base station or another mobile station).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

⁽a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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2. Claims 4 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fu (U. S. Patent No. 6, 834,182) in view of Quinn et al. (U. S. Patent No. 5, 756,967).

As for claims 4 and 6, Fu discloses the device of claim 2, characterized in that: said sampling circuit (ADC 18A as shown in Figures 7 and 9) generates a first set of samples (i.e., the set of N samples sampled by ADC 18A, see col. 6, lines 6-8 and lines 51-54) indicative of the electromagnetic field strength over a given time interval,

said measuring arrangement comprises an average calculating circuit (18G in Figure 9, col. 6, line 51) to generate a signal (Pav in Figure 9) indicative of the average electromagnetic field strength over a given time interval;

a memory (MEM 13 as shown in Figure 1) for storing data representative of said at least one RF power signal.

Still referring to claims 4 and 6, Fu does not specifically disclose that the average calculating circuit is configured for averaging subsets of said first set of samples to generate a second set of averaged samples, said second set of averaged samples comprising a number of samples that is smaller than the number of samples comprised in said first set of samples, and said memory store at least said second set of samples.

Quinn et al. discloses averaging subsets of a first set of N samples to generate a second set of averaged samples (e.g., 10 samples) that is smaller than the N number of samples comprised in the first set of samples, for the purpose of calculating the standard deviation for the subsets of samples (col. 4, lines 32-40).

A person of ordinary skill in the art would find it obvious at the time the invention was made to modify the average calculating circuit of Fu to disclose averaging subsets

of the set of N samples to generate a second set of averaged samples, said second set of averaged samples comprising a number of samples that is smaller than the number of samples comprised in said first set of samples, so that the memory stores the second set of samples, as taught by Quinn et al., for the purpose of calculating the standard deviation of the subsets of samples for checking the accuracy of the first set of N samples obtained(Quinn et al., col. 4, lines 32-40).

3. Claims 7 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fu (U. S. Patent No. 6, 834,182) in view of Dent et al. (U. S. Patent No. 6, 961,368).

As for claims 7 and 8, Fu discloses the device of claim 1. Fu does not specifically disclose that said measurement arrangement comprises a plurality of measuring channel, each measuring channel for measuring RF power signals input to said antenna in a respective frequency band; and the device further comprises at least one switch for selectively feeding towards said communication module the output signal of any of said measuring channels, whereby RF power signals respectively indicative of electromagnetic field strengths emitted by said antenna for each of said frequency bands are adapted to be transmitted from the device.

Dent et al. discloses (in Figure 5) using a plurality of measuring channels (see the plurality of transmit band channels 80a-80n), each measuring channel is selectively connected to an antenna (46); and at least one switch (switch 76; or 70) for selectively feeding the output signal of any of said measuring channels, for the purpose of adjust Art Unit: 2858

the impedance of the antenna to provide impedance matching for a selected frequency band to avoid interference or signal loss (col. 8, lines 42-59).

A person of ordinary skill in the art would find it obvious at the time the invention was made to further modify the measurement arrangement of Fu to disclose a plurality of measuring channel; and to use at least one switch for selectively feeding towards said communication module the output signal of any of said measuring channels, as taught by Dent et al., to measure the RF power signal input to said antenna in a respective frequency band, and whereby the RF power signals respectively indicative of electromagnetic field strengths emitted by said antenna for each of said frequency bands, for the purpose of matching the antenna to a selected frequency band so as to avoid interference or signal loss(col. 7, lines 37-43; col. 8, lines 42-59).

Response to Arguments

4. Applicant's arguments with respect to claims 1-12 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Amy He whose telephone number is (571) 272-2230. The examiner can normally be reached on 8:30am-5pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Hirshfeld can be reached on 571-272-2168. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Amy He

Patent Examiner, AU 2858

(571) 272-2230 July 2, 2007.